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to carry a factored load of 200kN. The center to center length of the strut between intersections is 3m. It is connected by 2 bolts on each side.

Q13. Design a laced column with two channels connected back to back of length 10m, carries an axial factored load of 1350kN. The column may be assumed to have restrained in position and direction both at each end.

Q14. Determine the design bending strength of ISLB 350 (a) 486 N.m considering the beam to be laterally unsupported. The design shear force V is less than the design shear strength. The unsupported length of beam is 3.0m. Assume steel of grade Fe 410.

Q15. Design a simply supported laterally restrained beam of span 5m swith a factored udl over the entire span of 20kN/m. Assume 50% each of dead and live load contribution. Take E250 grade of steel.

Figure

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